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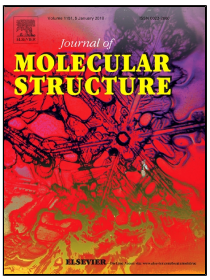

The formation of quasi-alicyclic rings in alkyl-aromatic compounds

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Highlights

- The alkyl side chains of n-alkyl phenols and n-alkyl arenes are cyclised.
- In fact, their molecules are not aliphatic–aromatic, but quasi-alicyclic–aromatic.
- Cyclisation is enabled by intramolecular reaction aromatic ring–terminal CH_3 group.
- At molecules with quasi-alicyclic ring, v. d. Waals intermolecular forces increase.
- Increase of intermolecular forces results in bi-linearity in GC retention times.

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